

For The Primary Stage



th. Primary Exercises

First Term 2018



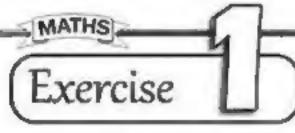
Large Numbers and Operations on them

Lesson 1: Hundred thousands

Lesson 2: Millions, Ten Millions and Hundred Millions

Lesson 3: Milliards (Billions)

Lesson 4: Operations on Large Numbers





Hundred Thousands

Write in v	vords
300 000	
680 001	
800 111	
528 030	
645 300	
204 550	
602 148	
701 405	
458 201	
245 120	
457 123	
150 150	
200 100	
999 999	



-write in aigits:	
Two hundred thousand	
Nine hundred thousand	
Four hundred and three thousand	HATTER AND
Nine hundred and six thousand	times jacon flaborant ladonant jacon jacon
Seven hundred and ninety thousand	*******************************
Two hundred and forty thousand	***************************************
Four hundred thousand and one	naniacorresistantonio necessore
Eight hundred thousand and twenty	Hamistania provinciaminos
One hundred thousand and six hundred	denoment in the light of the state of the st
Nine hundred five thousand and two	
Seven hundred two thousand and eleven	
Four hundred and thirty one thousand	***************************************
Six hundred thirty thousand and four hundred	4.044.00.00.00.00.00.00.00.00.00
Two hundred twenty thousand, nine hundred and three	
Three hundred thousand, two hundred and eighty	
Five hundred one thousand , six hundred and thirty four	White are consistent and area
Two hundred twenty two thousand, four hundred and fifteen	
Seven hundred eighty two thousand , eight hundred and sixty nine	
Nine hundred ninety nine thousand, nine hundredand ninety nine	
One hundred thousand and one	- management and a second and a second



Put the	suitable	sign (K.>	or = 1	2
1 600 10100		million!		-	

3 233 467 233 164

b 437 786 437 876

C 345 678 340 678

d 132 045 93 245

e 581 205 85 thousands and 205 f One hundred thousand

99 999

Three hundred twenty-six thousand, five hundred and forty

326 450

h 401 017 four hundred one thousand and seventeen

Write the greatest and the smallest number that can be formed from the number cards in each of the following as the example:

6 2 8 5 1 7

- The greatest number is

The smallest number is

4 1 5 3 2 6 b

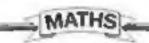
- The greatest number is

- The smallest number is

5 0 8 3 7 2

- The greatest number is

The smallest number is





Underline the number in digits expressing the on in words

- Two hundred seventy-eight thousand six hundred and twenty-eight.

 (278 682 or 278 628 or 278 862 or 287 628)
- Seventy thousand , five hundred and ninety-three.

 (70 593 or 700 593 or 59 370 or 750 093)
- © Six hundred three thousand and eight.

 (600 308 or 600 038 or 60 308 or 603 008)
- Two hundred thousand , seven hundred and two.

 (200 720 or 200 702 or 200 207 or 270 000)

Write the place value of the circled digit in each number

- 8 9 6 3 2 5 -----
- b 543**0**92 ---

c 157 342 ---

d 156 239 ---

e 66810 ---

1 26 371 --- ···

Complete

SPERIOR PROPERTY.



Write each of the following numbers:

- The greatest 5-digit number.
- The greatest number formed from 6 digits.
- The smallest number formed from 6 digits.
- d The greatest number formed from 6 different digits
- e The smallest number formed from 6 different digits
- The greatest different 6-digit number and their sum is 15
- The smallest different 6-digit number and their sum is 17
- The greatest different 6-digit number and the sum of its units and tens digits is 7
- The smallest different 6-digit number and the sum of its units and tens digits is 7





Sheet 1-



[a] Read the following numbers	and write them in letters :
(1) 764 921	
(2) 503 886	
(2) 004 042	And the state of t
(3) 981 012	and Miles
[b] Write the following numbers	
	thousand , six hundred and nine.
(2) Eight hundred thousand an	
	nd . nine hundred and ninteen.
2 Complete each of the following	
[a] 68 357 = 60 000 +	
[b] 369 017 = ·······	
[c] = 10 000 + 800 + 0 +	7 [d] = 500 000 + 40
3 Put (<) , (=) or (>):	
[a] 618 501 681 501	[c] 752 102 75 thousand and 102
[b] 19 thousands 19 000	[d] 982 134 982 thousand and 134
1 [a] From the following number	cards , write the greatest and the samilest
number that can be formed :	6 2 5 9 8 1
(1) The greatest number is:	(2) The smallest number is:
[b] Arrange the following numb	ers in an ascending order :
(1) 378 562 , 487 652 , 827 15	33 and 345 796
The order is:	
(2) 212 112 - 121 122 - 221 11	2 and 112 212
The order is :	
[a] Write the value of the circ	led digit in the following :
(1) 51③ 749	(2) ④97 668
[b] Write the place value of the	ne digit 7 in the following :





Millions, Ten Millions and Hundred Millions

Write in word:	1155
1 000 000	the nim day has been the man day of the till and him one had been the tage has the had the tage and the day one had the tage
145 000 000	\$50-040 MIC MIC MIC SON \$10-040 MIC
	BIC CONTROL OF THE AND PROCESSES AND
	THE STREET STEET OF STREET, OUR STREET, STEET STREET, STEET STREET, STEET AND STREET, AND
2 800 111	

4 404 550	
4 204 550	449 947 246 247 237 437 437 547 547 547 437 437 437 547 547 547 547 547 547 547 547 547 54
45 458 201	*** *** *** *** *** *** *** *** *** **
10 100 202	*** \$10.000 ASC \$40.000 \$40.000 \$10.000 \$10.000 \$20.000 \$10.000 \$20.000 \$10.00
7	112 Marie 27 and 112 and 125 and 127 and 128 and 127 and 128 a
10 245 120	247-047 Et 2 147 for 247-248 has not 407 the per 248 the 146 and him not one him 246 for 144 Of 2 504 My
-	261 445 445 141 445 445 445 445 445 445 44

200 457 123	
615 123 456	
46	
_	77. 410 141 141 141 141 141 141 141 141 141
2	305 PET SET AND
80 140 200	*** *** *** *** *** *** *** *** *** **
111	
100 000 002	
20 000 020	the first state and the man had state the old may want for the state out that that was the task that state and the state and the state out that the state out the state ou
0.000 / 00	
3 000 100	per one does the abouter the obstacle and the fact has the fact has not don't had about the day too the day about the fact on had and bak



Write in digits:

*** *** *** *** ***
22-001-001-124-124-222-021
*** *** *** *** *** ***
##4 ##0 401 414 ##4 ##4 ##4
A40, (ME 480 CP) JAS 480, 170
was true day day day out fire.
M) M 101 111 111 111 111

Complete :

2 564 253 601	million . thousand and
b 2 687 570	million , thousand and
C 73 421 685	million , thousand and
d = 840 mi	llion + 627 thousand + 254
e = 6 millio	n + 412 thousand + 576
f = 4 million	n + 4 thousand + 4
9 = 304 mi	llion + 24

Complete:

а	6 548 423	Statistical & section & formation & section &
С		= 40 000 000 + 7 000 000 + 300 000 + 70 000 + 1 000 + 600 + 5
d		= 70 000 000 + 30 000 + 4 000 + 30 + 1
е	***************************************	= 500 000 000 + 1 000 000 + 500 000 + 80 000 + 2 000 + 900 + 40 + 1



Choose the correct answer

- The place value of the digit 2 in the number 245 080 701 is (millions or ten millions or hundred millions or hundred thousands).
- The place value of the digit 6 in the number 64 579 328 is (millions or hundred thousands or ten millions or hundred millions)
- The value of the digit 9 in the number 945 200 300 is (9 000 000 or 900 000 000 or 90 000 000 or 90 000 000 or 900 000)
- The value of the digit 5 in the number 2 456 300 is (5 millions or 50 millions or 50 thousands or 500 thousands)
- The value of the digit 7 in the number 278 554 321 is
 {7 millions or 70 millions or 700 millions or 7000 millions}

Put the suitable sign [< , > or =] :

- e 9 854 705 11 012 314 100 thousands 1 100 ten thousands
- 3 million , 63 thousand and 217 3 063 217
- 94 132 740 94 million 132 thousand and 74

Write the value of the underlined digit according to its place

- 58 486 098 ---
- 62 478 300 ---
- C 24 041 683 ---
- d 41 691 403 ---
- 669 084 422 ---
- 1 30 30<u>3</u> 333 ----

Complete each of the following:	
[a] 235 million , 160 thousand and 4	78 = "
[b] = 37 million . 215 thou	geand and 375
[c] 67 000 590 = millions	+ thousands
+ hundreds +	tens + units
(d) = 3 millions + 10 thousa	nds + seven hundreds + 5 tens + 8 units
[e] 342 million = thousand	ds
Put (<) - (=) or (>) :	
[a] 8 954 507 8 945 507	[d] 100 hundred thousand 10 millio
	[e] 9 000 000 + 385 217 9 385 271
[c] 5 millions 500 000	
Write the value of the underlined	digit according to its place in the num
[a] 85 607 341	tel 4 592 678
	[d] 976 852 341
[b] <u>9</u> 85 743 842	6-1 3-2 0KT 0-1
(a) Arrange in an ascending order	r:
	5 932 648 and 6 358 217
The order is	
(b) Arrange in a descending order	g ,
	8 , 708 600 508 and 708 508 600
The order is	
The Order is .	
Choose the correct answer :	
[a] 700 000 000 + 80 000 000 + 3 0	00 000 + 70 + 1 =
(783 071 000	or 783 710 000 or 783 000 071)
(b) The value of the digit 5 in the nu	imber 3 521 068 is
(1	5 000 000 or 500 000 or 50 000)
(c) Ten million is the smallest numb	
	(7 or 8 or 10)
(d) Three million , three thousand a	
- *	30 003 or 3 003 30 or 3 003 003)





Write	in.	words
-------	-----	-------

- 1 000 000 000
- 3 400 000 000
- 52 320 000 500
 - 3 000 650 000
 - 4 145 000 000
- 4 204 550 002

- 6 000 256 021
- 92 356 000 457
- 12 701 405 540
- 212 212 556 000



-Write in digits:

Two milliard

Five milliard and nine million

Seventy milliard, two hundred and sixteen million

Eight milliard five million six thousand and two hundred

Twenty milliard, five million and sixty two thousand

Thirty milliard, ninety million, fifty thousand and forty five

Nine milliard, forty five million, nine hundred sixty five thousand and eight.

Sixteen milliard, Two hundred fifty million, three hundred forty six thousand and twenty

Ten milliard, sixty five million, two thousand and three hundred

Four milliard, three hundreds xteen thousand two hundred and one

Two milliand, four hundred thirty six million , five hundred sixty two thousand , five hundred and thirty two

Five milliand, two hundred thirty two million, five hundred one thousand, six hundred and thirty four

Ninety nine milliard, nine hundred ninety nine million, nine hundred ninety nine thousand, nine hundred and ninety nine

Eleven milliard, eleven million ,eleven thousand and eleven

One milliard, ten million, one hundred thousand and one



Write the value of the underlined digit according to its place in the number :

■ 6 200 400 173 → +

B 8 121 400 500 ---

9 241 530 400 ---

<u>4 53 987 140 111 —</u>

Complete:

- The place value of the digit 7 in the number 7 321 521 800 is
- The place value of the digit 0 in the number 5 321 041 758 is
- The place value of the digit 2 in the number 9 152 747 180 is

Read the following numbers and complete:

7 101 264 372

- · milliard ·
- million .
- thousand and

B 719 645 302

- m Lard .
- million -
- (housand and

G 2 100 931 000

- militard .
- million -
- thousand and

6 539 006 475

- milliard .
- million-
- thousand and

Put the suitable sign [< , > or #] *

- 9 341 200 519
- 9 341 200 509 1 307 458 210
- 1 307 548 210

- 6 6 420 111 715
- 642 011 171
- 7 100 600 200
- 8 mill ard

- One milliard
- 999 999 999
- f 3 milliard
- 300 millions

- 7 000 millions
- 7 milliard

Arrange the following numbers in an ascending and a descending order .

3 822 839 200 +100 209 891 + 17 933 222 918 and 1 321 412 621 The ascending order is:

The descending order is



Complete Complete	each of	f the folio	wing:
-------------------	---------	-------------	-------

[a] 8 532 674 109 =

miliard +

million +

thousand +

[b] 31 512 924 760 =

milliard +

million +

thousand +

[c] 6 000 210 000 =

milliard +

thousand

[d] 802 000 000 020 =

milliard +

🕢 Write :

[a] The value of the underlined digit

(1) 1 151 515 151 ----

(2) 20 987 655 143 ----

[b] The place value of the underlined digit

(1) 35 987 643 201 -----

(2) 572 100 634 899 · ·

Put (<) + (=) or (>) :

[a] 7 456 789 012

8 milliards

[c] 93 163 058 472

93 136 401 742

(b) 10 milliards

10 000 minons [d] 80 hundred thousands

60 milkards

(a) Arrange the following numbers in an escending order:

7 521 439 528 • 7 125 943 528 • 7 milliards and 7 095 348 951

The order is :

(b) Write the following numbers in letters :

(1) 8 973 265 413

(2) 25 706 485 980 ~

Join the two cards which express the same number :

5 214 375 600

Five million, two hundred fourteen thousand, set hundred and seventy-five

5 214 675

Five hundred twenty one million, four hundred thirty seven thousand, five hunded and sixty

52 146 375

Five milliard, two hundred fourteen millionthree hundred seventy five thousand and six hudred

521 437 560

Fifty two millions one hudred forty six thousands three hundred and seventy-five.



Operations on Large Numbers

Addition & Subtraction

Add:

Subtract:



Put the suitable sign (< , > or =) :

- 8 083 106 741 315 7 341 791
- ▶ 999 999 + 1 1 million
- **C** 1 000 001 − 1 1 ten million
- 44 302 + 5 698 50 thousands
- 587 813 + 6 541 389 9 875 941 2 746 739
- 7 845 200 5 643 522 2 145 672 + 403 562
- 5 984 531 + 4 403 564 the greatest 7 digit number
- 7 342 109 6 318 553 the smallest 7 different digit number

Complete:

- 3 256 712 +
- 7 **8**07 300
- 3 108 721 -
- = 2 857 101

- ь
- + 7 618 149 = 10 869 183
- 4 808 199 = 3 121 703

- G 9 256 000 -
- 5 312 989
- 7 218 305 = 6 977 455

The ministry of Health vaccinated 9 876 543 children last year and 8 456 783 children this year.

Calculate the total number of the vaccinated children

If the budget allocated to support drinking water increased in two consecutive years from 270 000 pounds to 750 000 pounds. Find the amount of the increase

If the budget allocated to support medicine in two consecutive years increased from 4 543 000 pounds to 8 586 000 pounds to preserve the prices of medicine. Find the amount of the increase.

A factory produced 2 987 543 toys in one year. The next year, the factory produced i3 267 594 toys. Find the difference between the production in the two years.

If the distance between Cairo and Alexandria is 220 000 m. Ahmed travelled 135 000 m. form it find the left distance to Alexandria.

Sara had L.E. 2 000 000 she bought a car for LE 235 861 and a mobile for L.E. 2 500. Find the remainder money with her



1) Complete

$$X 1 = 7$$

$$X 6 = 42$$

$$X 0 = 0$$

$$X = 5 = 40$$

$$X = 16$$

$$X = 32$$

$$X 6 = 48$$



Find the result of each of the following:

Complete:

- [c] The place value of the circled digit in the number 54 375 219 is
- [d] The smallest number formed from the digits 7,2,8,3,5,9 and 4 is
- [e] The greatest 8-digit number is
- 1 In a year 1 576 024 tourists visited Cairo Tower and in the next year 2 159 817 tourists visited it.

Find the total number of tourists in the two years.

4 Put (>) , (=) or (<) :

....

A factory produces 2 863 945 cans of soft drinks in a month and in the second month, the factory produces 3 694 273 cans. Find the difference between the production in the two months. MATHS



Find:

5 3 X 2

2 5 X 6

X

Х

X

X

Х

3 6 4 X

2 0 7 X

X

3 3 5 X

287 X

2 6 9 X

3 0 5 2 X

X 2

X

51744

X 2

35052 48135 X 4

22307

48002

M HI HI III HI WI WI H

56117

66332 X

H- 171 HI WI IN H- ----



Find:









MARKET 11 181 184









Find the result of each of the following:

4 3

× 35

* HII II

×

•

+

378 × 35 =

● 132 × 75 =

267 × 18 =

ж

.

x - ·

х . . .

÷

+ - - -

508 × 85 =

209 x 55 = ·

1 436 × 19 =

X ——

Marin.

7+ Burgal and and and

+

Put the suitable sign (<) , (>) or (=) in the blanks

Mohamed	88VI	es PT.	3 455	mo	nthly:		
Calculate	how	much	топеу	he	saves	ın S	9 months

A primary school is formed of 19 classes of 45 pupils each. Calculate the total number of the pupils.

A man bought 398 metres of cloth for L E 45 per metre. Find the total cost price.

Ministry of Education distributed 425 computers for each administration. Find the total number of computers for 12 administrations.

A man wanted to build a house for his family. He bought 15 tons of building steel for L.E. 7 356 a ton and 48 tons of cement for L.E. 475 a ton. How much did the man pay?

Sara bought a bedroom. She paid L.E. 2.850, then she paid 20 instellments each for L.E. 250. Find the price of the bedroom.

A merchant had 2 465 pounds. He bought 35 boxes of soft drink for L.E. 47 each. How much money was left with him ?



1 4 8

2579

753

KIN

977 × 25 =

3 × 12

338 × 17 = -

Choose the correct answer between brackets:

[a] Two thousand x 53 =

(106 thousand or 53 thousand or 53 million)

[b] 8 000 hundred thousands =

(8 milliards or 8 millions or 800 millions)

[c] The number seventy thousand a five hundred and ninety-four in digits is (700 594 or 70 594 or 750 094)

[d] The value of the digit 6 in the number 276 148 is .

(6000 or 600000 or 60000)

[e] The smallest 7-digit number is

(7 000 000 or one million or 9 999 999)

[a] Write the following numbers in letters :

(1) 1 815 637 409 -----

(2) 98 723 614

[b] Arrange the following numbers in a descending order:

3 521 764 , 994 318 , 5 764 849 and 2 millions

The order is:

and

4 Join with the equal result :

75 145

75 144

75 143

75 146

1 084 572 -- 1 009 429

35 x 2 147

21 898 +53 248

9 393 × 8

If 30 passengers travelled to Hurghada by eir and the price of the ticket was L.E. 215 How much money did all the passengers pay ?

Dividing by a 2-digit number

MATHS ____



winary

4 168

7 175

8 296

6 432

2 196

5 4 2 5

3 144

9 387

8 352

7 385

6 282

5 220

7		3	0	2	4	

3 2 5 2 6

5 1125

9 4 2 4 8

8 3 3 2 0

6 4 2 3 0

-

3 627

4 2028

2 1712

• . .

•











Complete:

* Complete :

There are 6 pencils in a box. How many boxes can be filled with 456 pencils? How many pencils will be left over?

A hotel has 552 rooms divided equally among

floors .

How many rooms are there in each floor?



Dividing by a 2-digit number



12 60

51 1 2 2 4	62 1 4 8 8	73 3 8 6 9
84 3 1 0 8	95 4 0 8 5	42 2 8 5 6
31 1674	75 3 2 2 5	62 2 9 1 4

81 1944 93 1581 64 1600



Divide:

A car uses one litre of petrol to cover 15 kilometres. How many litres does the car need to cover 570 kilometres?

There are 36 pencils in a box. How many boxes can be filled with 2 458 pencils?
How many pencils will be left over?

Ahmed bought a TV set for L E 1 660 He paid L E 340 and the rest was divided on 24 equal installments.

Find the value of each installment the rest was a feet installment.

Adel bought a flat in a housing tower for L E 168 940. He paid L E 100 000 as a down payment and the rest on 18 equal installments.

Find the value of each installment

Sally bought 26 metres of cloth for 286 pounds. Find the price of 8 metres of the same cloth.

Find the quotient of each of the following:

[a] 1792 + 7 =

[b] 5 112 + 36 =

[c] 4 920 + 8 =

[d] 72 408 + 42 = · · · · ·

Choose the correct answer between brackets :

[a] 257 + 50 = 5 and the remainder is

(7 or 8 or 9)

[b] 4 004 + 52

6 x 13

(> or = or <)

[c] The place value of the digit 7 in the number 3 751 200 is

(millions or hundred thousands or ten thousands)

[d] The greatest 10-digit number is

(9 999 999 999 or ten milliard or 999 999 999)

[e] (521 764 + 739 648) - one million =

(1261412 or 361412 or 261412)

② Put (√) for the correct statement and (*) for the incorrect one and correct the incorrect one:

(a) 225 + 25 = 8 /

1 1 (2

[b] 1 515 + 14 = 108 + the remainder = 3

()

(c) If: $56 \times 23 = 1288$, then , 1288 + 23 = 56

()

[d] The smallest number formed from the digits

5 . 8 . 4 . 7 . 0 . 2 and 3 is 2 345 780 (

[e] 6 × 4 milliards < 40 × 1 000 000

()

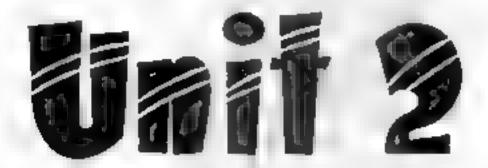
A group of 328 tourists is divided into 8 buses. Find the number of tourists that can each bus carry?

(a) Find the number which if we multiply by 39, the result will be 2 457. The number is

[b] Find the number which if we divide by 43 , the quotient will be 117.

The number is





Geometry

Lesson 1: Relation between Two Straight

Lines and Geometric Constructions

Lesson 2: Polygons

Lesson 3: The Triangle

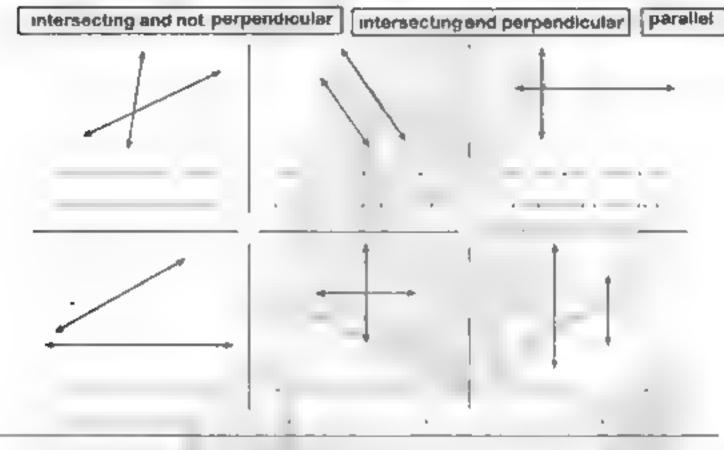
Lesson 4: The Circle

Lesson 5: Applications



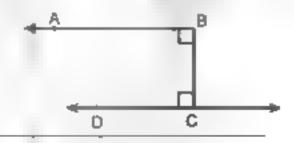
Relation between Two Straight Lines and Geometric Constructions

Write the relation between the two straight lines under each figure



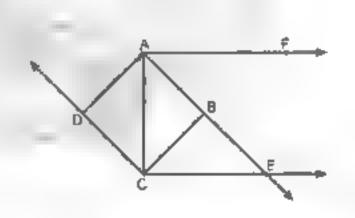
In the opposite figure - complete using "//" or "\to":

- AB · CD
- D CB CD
- C AB BC



In the opposite figure - complete :

- AF //
- AB //
- D AD _
- CE ⊥
- AE intersects CE at the point
- AF intersects AD at the point





In the opposite figure , complete using "#" or " \perp ":

AC AB

b AE BC

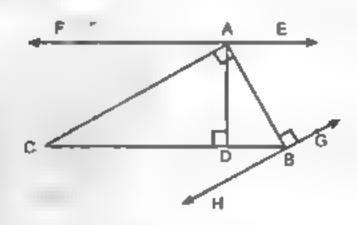
C BH MANAGE AB

d AD CB

• HB AC

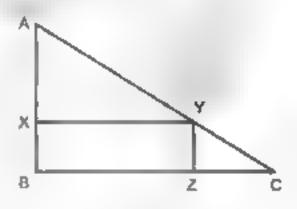
DA ----- FE

D BC FE



Notice the opposite figure - then complete:

- AB BC
 - C (__ or //)
- D AB
- YZ (L or //)
- C XY BC (1 or #)
- AY intersects BZ at the point
- YC intersects BX at the point



Choose the correct answer between brackets - using the opposite figure :

- L BA □
- (DC or AD or XY)
- P AE T
- (BD or AB or BC)
- C BC //
- (CD or AE or AD)
- DC //
- (AE or AB or XY)
- XY //
- (BC or AD or BD)
- f VX 1
- (AE or AB or AD)



Choose the correct answer between brackets:

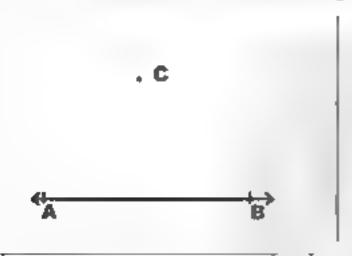
- Any two straight lines that never intersect are called (perpendicular or parallel, or intersecting and not perpendicular)
- Any two lines that intersect at a point and make four right angles are called (parallel, or intersecting and not perpendicular, or perpendicular.)
- The two intersecting lines intersect at (one point or two points, or zero points,)
- The two parallel lines intersect at (two points. or zero points. or one point,)
- The two intersecting lines make angles (2 or 4 or 5)
- If one angle at the intersection point of the two lines is acute angle then the two lines are called

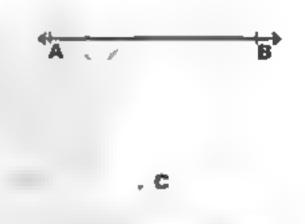
 (perpendicular, or intersecting and not perpendicular or parallel.)
- If one angle at the intersect or point of the two lines is obtuse angle, then the two lines are called
 - (perpendicular, or intersecting and not perpendicular, or parallel.)

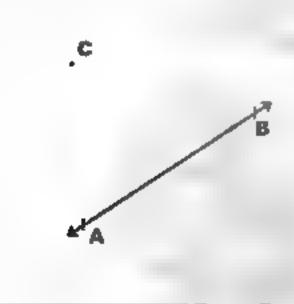


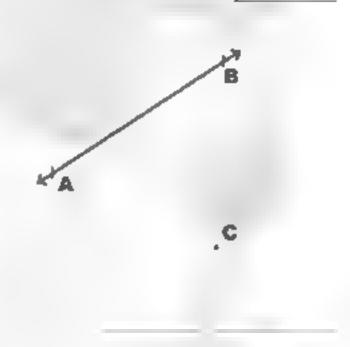
Draw a perpendicular and a parallel

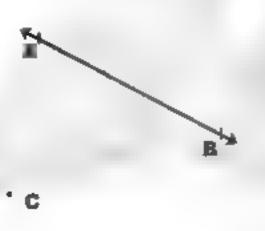
Draw $\overrightarrow{\mathsf{CD}} \perp \overrightarrow{\mathsf{AB}}$ in the following :

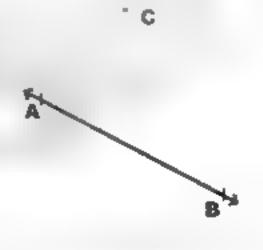




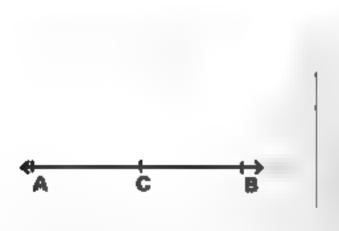


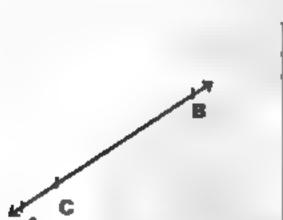


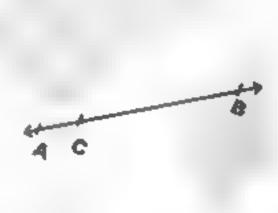


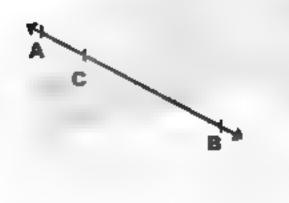


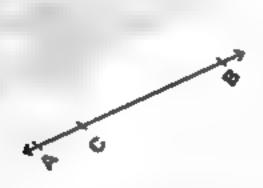
Draw \overrightarrow{CD} . \overrightarrow{AB} in the following :









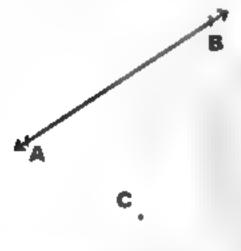


Draw CD // AB in the following :

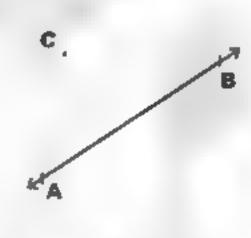
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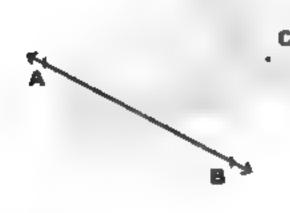


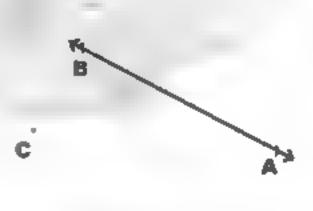












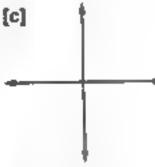
■ Write "intersecting and not perpendicular, perpendicular or parallel" under each of the following figures :

[a]



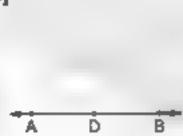
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2 Draw a perpendicular to AB from the shown point in each of the following figures :



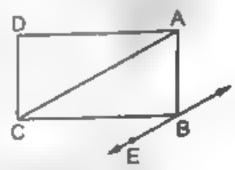




In the opposite figure * complete :

В

- [a] The figure ABCD is called
- [b] AB # __
- [c] AB 1 -----
- [d] AC //
- el AD L and



- (2) Complete :
 - [a] The place value of the digit 7 in the number 375 214 is
 - [b] 3 543 218 + 5 738 512 =
 - [c] 970 146 175 558 =
 - [d] The number of right angles formed from the intersecting of two perpendicular lines are
 - [e] The two lines which can not intersect are called
- In a school if 756 pupils are distributed equally on 16 classes. Find the number of pupils in each class.



Polygons

Join each figure to the its name:









Rectangle

Trapezium Triangle Rhombus Square Parallelogram

Complete:

- The polygon which has four sides is called a
- The hexagon is a polygon with sides a but the is a polygon with three sides.
- The number of vertices of the hexagon =
- In the square all angles are angles.
- The two diagonals of the rectangle are
- In the parallelogram every two opposite sides are and
- Each two opposite sides are parallel in and
- h Each two opposite sides are equal in length in and the name and I be me a man and
- The four sides are equal in length in and
- The four angles are right in and
- The two diagonals in are equal and in length and bisect each other.
- The quadrilateral has diagonals.

- 3 Put (*/) for the correct statement and (*) for the incorrect one and correct the mistake :
 - The sides of the square are equal in length (
 - The angles of the rectangle are right. (
 - The opposite sides in the parallelogram are parallel. (
 - The diagonals of the rectangle are not equal in length. ()
 - The rhombus has only one pair of parallel sides. (
 - The polygon which has no diagonals is a triangle (
 - The measure of any angle of the square = 45° (
 - The polygon which has five angles is called a heptagon (
 - The two diagonals of the square are perpendicular (
 - The number of sides of any polygon is equal to the number of its vertices.
- Write only one difference between each of the following
 - The square and the rectangle
 - The rhombus and the parallelogram.
 - G The square and the cube



- 5 Draw:
 - The square ABCD with side length 6 cm.
 - The rectangle XYZL with dimensions 3 cm, and 5 cm.
 - The square MNOP of side length 3 cm.
 - The rectangle EFGH where EF = 8 cm and FG = 5 cm.



- 6 Draw the square ABCD whose side length is 4 cm. then complete:
 - B AB = cm
 - b AB // and BC //
 - G AB L .--- . CD L and BD 1
- Draw the rectangle ABCD where AB = 4 cm, and BC = 3 cm, 4 then draw the two diagonals AC and BD Find using the ruler

the length of AC and BD +

AC

BD

- Draw the rectangle XYZL in which its dimensions are 5 cm, and 2 cm. then complete:
 - XY = = cm. and YZ = = cm.
 - b XY //and XY ↓
 - ♥ YZ // ----- and YZ ⊥
- Draw the rectangle ABCD of length 10 cm, and of width equal to 1/2 its length, then find its perimeter

6	Complete	ż
_		~

- (a) In the square , the two diagonals are , and
- [b] In the rectangle, all angles are angles.
- [c] In the parallelogram , each two opposite sides are and
- [d] The four sides are equal in length in and
- [e] A quadrilateral that has only one pair of parallel sides is called

Put (<) for the correct statment and (x) for the incorrect one "with correcting the incorrect one":</p>

- (a) The greatest 7-digit number is 9 000 000
- (b) The two perpendicular lines make 4 acute angles.
- [c] $256 \times 38 = 9728$
- [d] The number of sides of a pentagon is 7
- [e] The number of diagonals of the rhombus is 2

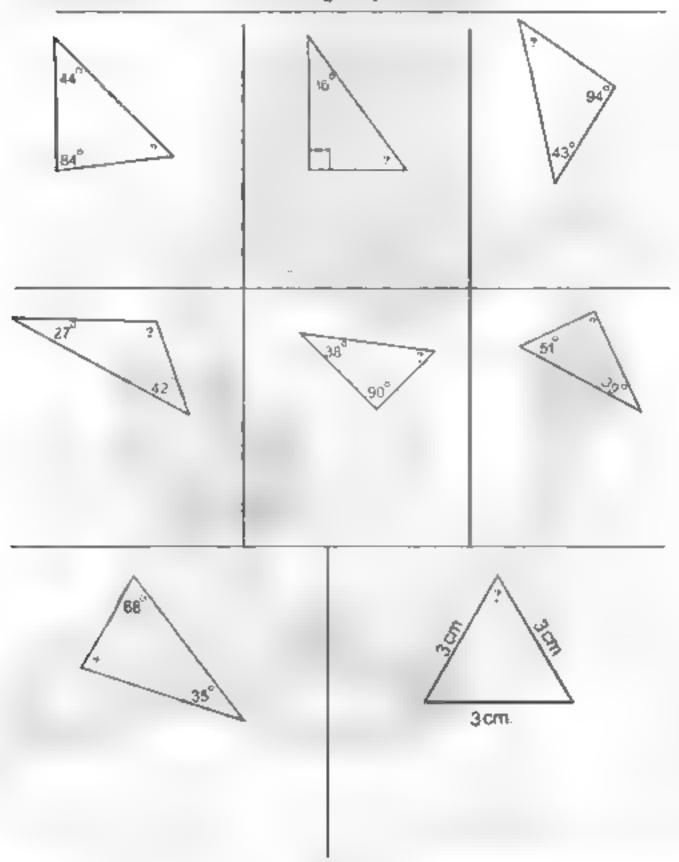
[3] An aeropiane can carry 364 passengers per trip. How many passengers can the aeropiane carry in 18 trips ?

- [b] Ayman bought 98 metres of cloth for L.E. 45 per metre.
 Find the total cost price.
- Draw the rectangle XYZL in which XY = 4 cm. and YZ = 3 cm. , then draw the two diagonals \overline{XZ} and \overline{YL} , then complete:
 - [a] XZ = ---- 2 --- cm.
 - [c] XY //
 - [b] YL = - cm.
 - [d] YZ 1 # prode and
- Draw the square ABCD with side length 4 cm.

Exercise

The Triangle

In each of the following triangles , find the measure of the angle that marked with "?" "without using the protractor"





Which of the following can be measures of the angles of a triangle?

m (
$$\angle$$
 X) = 53° +m (\angle Y) = 72° and m (\angle Z) = 55°

b m (
$$\angle$$
 F) = 70° \cdot m (\angle R) = 56° and m (\angle H) = 60°

$$\blacksquare$$
 m (\angle A) = m (\angle B) = 40° and m (\angle C) = 88°

In the triangle ABC , if M
$$\angle A$$
 = 103° , M $\angle B$ = 33° then M $\angle C$ =

In the triangle XYZ, if
$$M \angle X = M \angle Y$$
 and $M \angle Z = 80^{\circ}$
Find the measure of $\angle X$ and $\angle Y$

In the triangle XYZ, if
$$M \angle X = M \angle Y$$
 and $M \angle Z=100^{\circ}$
Find the measure of $\angle X$ and $\angle Y$

In the triangle XYZ, if
$$M \angle X = M \angle Y = M \angle Z$$

Find the measure of $\angle X$, $\angle Y$ and $\angle Z$



Types of Triangles

Determine the type of the triangles that the measures of their angles as the following .

- **■** m (∠ E) = 30° ⋅ m (∠ F) = 90° and m (∠ G) = 60° °
- -angled triangle*
- m (∠ I) = 30° ⋅m (∠ J) = 40° and m (∠ K) = 110° °
- -angled triangle*

- c m (∠ S) = 51° ⋅ m (∠ T) = 67° and m (∠ U) ≈ 62° °
- -angled triangle*
- d m (∠ L) = 32° ·m (∠ N) = 58° and m (∠ M) = 90° °

If $m (\angle A) = m (\angle B) = 45^{\circ}$ and $\angle C$ is a right angle. *

-angled thangle*

 $m (\angle X) = 46^{\circ} \cdot m (\angle Y) = 38^{\circ} \text{ and } m (\angle Z) = 96^{\circ}$

-angled triangle*
-angled triangle*

f m (∠ H) = m (∠ B) = 70° and m (∠ A) = 40°

-angled thangle*

m (\angle D) = 66° and m (\angle F) = $\frac{1}{2}$ m (\angle D)

-angled triangle"

Determine the type of the triangles according to their side lengths using the following data:

AB = 6 cm →BC = 7 cm. and CA = 6 cm.

triangle*

XY = 4 cm , YZ = 8 cm. and ZX = 5 cm.

tnangle*

NO = 3 cm → OR = 3 cm, and RN = 3 cm.

tnangle"

d MA = AY = 9 cm. and YM = 10 cm

tnangle"

AM = 10 cm. - MR = 7 cm. and RA = $\frac{1}{2}$ AM

tnangle"

f m (∠ A) = m (∠ B) = m (∠ C) = 60°

Inangle"

Complete using < , = or >

- The measure of the obtuse angle _____ the measure of the straight angle.
- The measure of the straight angle ___ . the sum of measures of the interior angles of a triangle
- The sum of measures of two acute angles ____, the sum of measures of the interior angles of a triangle
- The sum of measures of two right angles ____ the sum of measures of the interior angles of a triangle.
- The sum of measures of two obtuse angles the sum of measures of the interior angles of a triangle

Complete:

- The triangle is a polygon that has sides and angles
- The equilateral triangle is a triangle whose sides are
- Any triangle has at least acute angles.
- The sum of measures of the interior angles of a triangle is
- The sum of measures of the two acute angles in the right-angled triangle is
- The triangle ABC is an equilateral triangle where AB = 5 cm then AC = ------ cm, and BC = --- cm
- The measure of each angle in the equilateral thangle is
- in the triangle ABC \cdot if m (\angle A) = 57° and m (\angle B) = 46° \cdot then m (\angle C) =
- In the thangle XYZ fm (∠ X) = 70° and m (∠ Y) = m (∠ Z) then m (∠ Z) =
- In the triangle ABC ₁ If m (∠ A) = 27° and m (∠ B) = 2 m (∠ C) ₁ then m (∠ C) =

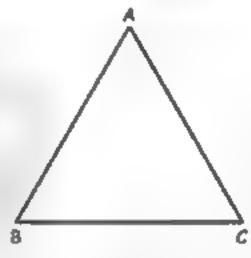
Choose the correct answer from those between brackets:

- If the side lengths of a triangle are different i then the triangle is called triangle. (acute angled or isosceles or scalene)
- The triangle whose side lengths are 7 cm +4 cm, and 7 cm is called triangle (equilateral or isosceles or scalene)
- The triangle whose side lengths are 8 cm +6 cm and cm is called scalene triangle (8 or 6 or 4)
- The sum of measures of the interior angles of a triangle is twice of measure of angle (straight or right or acute)
- 50° -70° and 60° are the measures of angles of triangle (obtuse angled or right angled or acute angled)

Measure then complete:

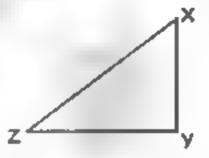
AB = ... cm , BC = ... cm , AC = ... cm The type of triangle according to its sides Is

 $M \angle A = \dots$, $M \angle B = \dots^*$, $M \angle C = \dots$ The type of triangle according to its angles Is a summary and a summary of the state of the



Measure then complete.

 $m \angle X =^{\circ}$, $m \angle Y = ...^{\circ}$, $m \angle Z =^{\circ}$ The type of triangle according to its angles Is

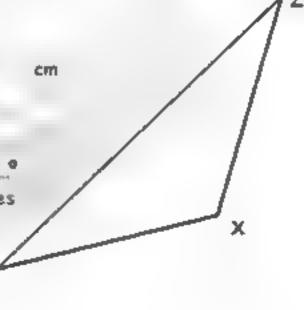


Measure then complete.

m-Z X =°, m Z Y =°, m Z Z =°

The type of triangle according to its angles

Is an and the second of the se



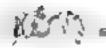


Draw the triangle ABC in which AB = 4 cm \cdot AC = 7 cm, and m (\angle A) = 65°

Draw the triangle LMN in which LM = 3 cm \cdot MN = 4 cm, and m (\angle M) = 90°. then find the length of LN and calculate the perimeter of the triangle.

Draw the triangle XYZ in which XY = YZ = 6 cm. and $m(Z Y) = 60^{\circ}$, find:

- The length of XZ
- The type of the triangle according to the lengths of its sides.
- The type of the triangle according to the measures of its angles.



Draw \triangle DEF in which DE = 5 cm. \cdot EF = 6 cm. and m (\angle E) = 80°

- What is the sum of the measures of the two angles ∠ FDE and ∠ DFE ?
- Use the protractor to find m (4 DFE)
- Calculate m (∠ FDE) "without measuring"
- d What is the type of A DEF according to
- the measures of its angles
- the lengths of its sides.

Draw the triangle ABC in which AB = BC = 4 cm, and m (\angle B) = 70° and determine the type of the triangle ABC according to the measures of its angles and to the lengths of its sides.

the type of the triangle ABC according to

- the measures of its angles
- the lengths of its sides.



Draw △ ABC in which AB = 6 cm. - m (∠ A) = 50° and m (∠ B) = 75°

Draw \triangle XYZ in which XZ = 10 cm. \cdot m (\angle X) = 30° and m (\angle Z) = 60° \cdot then find the length of \overline{YZ}

Draw the triangle XYZ in which XY = 5 cm, and m (\angle X) = m (\angle Y) = 60°, then find:

- m (∠ Z)
- The length of YZ . The length of ZX =
- The type of the triangle according to the measures of its angles.

Draw the triangle ASC in which AB = 10 cm. \cdot m (\angle A) = 55° and m (\angle B) = 35° \cdot then find.

- The measure of ∠ C
- The type of the triangle ABC according to the measures of its angles and to the lengths of its sides.

Draw the triangle XYZ which is right-angled at Y , YZ = 5 cm, and m (\angle Z) = 60°. Find the length of \overline{XZ} , then without using the protractor, find m (\angle X)

Draw 1 LMN in which MN = 6 cm \cdot m (\angle M) = 40° and m (\angle N) = 70°

- 🐧 find m (4 L)
- What is the type of the triangle according to the measures of its angles?

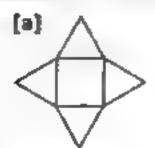
4	A	بالحد	-	
w	Con	7,000	ata	٠

- [a] The triangle whose side lengths are 5 cm. , 6 cm. and 5 cm. is called triangle.
- [b] 20°, 60° and 100° are the measures of angles of angles of angles triangle.
- [c] The measure of each angle in the equilateral triangle is
- [d] The sum of measures of the interior angles of a triangle equals
- [e] In \triangle ABC \bullet if m (\angle A) = 50° and m (\angle B) = 40° \bullet then the type of the triangle ABC according to the measures of its angles is triangle.
- ② Put (√) for the correct statement and (×) for the incorrect one "with correcting the incorrect one":
 - [a] If ABC is a triangle in which m (∠ B) = 98° , then it is said to be a right-angled triangle (
 - [b] If XYZ is a triangle in which m (\angle X) = 120° and m (\angle Y) = 45°, then m (\angle Z) = 15° (
 - [c] 534 + 3 = 178 ()
 - [d] 374 521 + 625 479 = one million ()
 - [e] The value of the circled digit in the number 8 2(4)7 635 is 400 000 (
- Draw the triangle ABC in which AB = 3 cm. , BC = 4 cm. and m (\angle B) = 90° Measure the length of \overline{AC} , then calculate the perimeter of the triangle ABC
- ② Draw the triangle XYZ in which XY = 5 cm. and $m (\angle X) = m (\angle Y) = 60^{\circ}$ then find :
 - [a] m (4 Z)
 - [b] The length of each of YZ and ZX
 - (c) The type of the triangle according to its sides and its angles.
- 6 Hazem bought 26 books from the book fair, if the price of one book is P.T. 725 Find the money that Hazem paid.



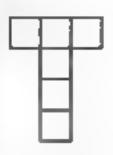
■ Name the solid you can form from each figure :

[b]





1 / 5 (cor [c]



Complete each of the following:

- [a] The place value of the digit 6 in the number 3 612 904 is
- [b] 8 million , 42 thousand and 40 =
- [c] 7 839 641 + 209 679 = ·
- [d] All sides of the square are in length.
- [e] In the triangle XYZ → m (∠ X) = 40° → m (∠ Y) = 30° → then Δ XYZ is -----angled triangle.

[a] Draw the rectangle

XYZL in which

XY = 5 cm. and

YZ = 2 cm.

[b] Arrange the following numbers in an ascending order :

1 milliard , 200 213 968 , 458 251 and 1 million

Find the result of each of the following:

[a] 634 271 - 271 629 =

[b] 7 105 + 35 =

 $[c] 645 \times 42 =$

[d] 854 + 2 =

A hotel has 192 rooms distributed equally among some floors. Each floor has 16 rooms. How many floors are there in this hotel ?





Multiples, Factors and Divisibility

Lesson 1: Multiples

Lesson 2: Divisibility

Lesson 3: Factors and Prime Numbers

Lesson 4: Common Factors

and Highest Common Factor (H.C.F.)

Lesson 5: Common Multiples

and Lowest Common Multiple (L.C.M.)



Multiples

Underline each number of the following that is a multiple of the number 2: 17, 5, 28, 4, 13, 2, 20

Underline each number of the following that is a multiple of the number 3: 4, 15, 21, 3, 10, 12, 22

Underline each number of the following that is a multiple of the number 5: 23, 15, 40, 51, 5, 8, 20

Write all the multiples of the number 3 between 10 and 20.

Write all the multiples of the number 5 between 14 and 44.

Write all the multiples of the number 2 that are less than 10.

Write all the multiples of the number 3 that are less than 20.

Write all the multiples of the number 5 that are less than 30.

Complete.

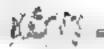
12 = 3 x hence the number 12 is a multiple of and also considered a multiple of

28 = 7 × . hence the number 28 is a multiple of
and also considered a multiple of

45 = 5 x ... hence the number 45 is a multiple of and also considered a multiple of

Write the multiples of the two numbers 2 and 5 that are less than 50

Write the multiples of the two numbers 2 and 3 that are less than 30.



Join each number to its multiples.

2

3

5

7

8

11

12

15

21

30

Write a number greater than 20 that is a multiple of both 2 and 4 and also a multiple of their product 8.

Write a number greater than 20 that is a multiple of both 2 and 4 and not a multiple of their product 8.

Complete with the multiples of 10 as the example.

Example: 50 < 57 < 60

a < 24 <

b < 11 <

c < 43 < 4 ...

d ... < 76 <

e < 69 < .

f < 95 <

Complete with the multiples of 5 as the example

Example: 20 < 23 < 25

a < 17 <

b < 8 <

c < 32 <

d < 66 < .

e < 81 <

f < 94 <

If the number of pupils in a class is a multiple of both 2 and 3 that is included between 30 and 40. How many pupils are there in the class?

An alarm clock rings regularly every two hours, while another one rings every 3 hours. If the two alarms ring together at 12 o'clock, at what time will they ring together after that?

Underline between brackets the multiples of the desired number in each of the following:

[a] 2

(8,7,5,10,11,4,9)

(b) **7**

(4,14,70,8,21,7,6)

[c][4]

(5,8,10,0,14,16,6)

[0] [5]

(10,14,2,5,15,30,4)

@ Complete:

[a] The number

is a multiple of all numbers.

[b] The number 24 is a multiple of 3 because : **[c]** If $44 = 11 \times$ then the number 44 is

, then the number 44 is a multiple for the number

and also a multiple of the number

[d] One million is the smallest number formed from digits

[e] 7 millions = -- ten thousands.

[a] Write the multiples of 6 which lying between 20 and 50

[b] Draw the square ABCD in which

AB = 3 cm.

@ Put (>) , (=) or (<) :

(a) 3 795 146 3 785 164

[b] 2 000 × 6 120 thousands.

[c] 78 + 6 _____ 117 ÷ 9

[d] 241 376 + 758 624 one billion.

Marwan bought a car for L.E. 24 960 He paid L.E. 12 000 in cash and the rest was divided into 24 equal monthly instalments.

Find the value of each instalment.



Divisibility

Complete the following table:

t	INSIO	1	Quotient	Remainder		Divisible / not divisib	e
45	-	5			45	to a management on the beat and the	. 5
24	÷	- 4			24	A July and a second sec	. 4
60	÷	7			60		7
78	<u>T</u>	6			78		6
35	÷	4			35		- 4
81	÷	9			81	-	9
28	+	7			28	No.	7
19	-	4			19		4
120	42	4			120		4
154	÷	5			154		5
245		5			245		5

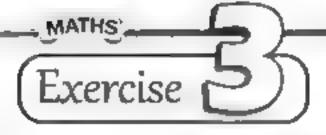
Circle the	number wh	ich is divi	sible by 2			
30	65	97	54	26	151	368
45	212	127	641	258	654	239
78	216	925	743	250	2544	1119
Circle the	number wi	nich is divi	sible by 3	1	_	
45	36	28	456	558	652	100
154	368	554	1002	2005	12748	445
457	777	891	4054	3332	4668	411
Circle the	number wh	nch (s divi	sible by 5			
45	36	250	156	558	354	101
154	830	940	630	2005	12748	55551
150	110	147	758	335	1208	54441



	the falls		umbasa da as				
nze.			umbers to co				
	325	532	711	650	345	762	900
the	numbers	which	are divisible	by 2 : .			
the	numbers	which	are divisible	by 3 .			
the	numbers	which	are divisible	by 5			
the	numbers	which	are divisible	by 6			
the	numbers	which	are divisible	by 10			
the	numbers	which	are divisible	by 15 :			
us€	the follo	Wing n	umbers to co	mpiete .			
	120	246	435	110	625	112	333
the	numbers	which	are divisible	by 2 .		4	
the	numbers	which	are divisible	by 3 :			
the	numbers	which	ere divisible	by 5			
the	numbers	which	are divisible	by 6			
			are divisible	-			
			are divisible				

Number	Divisible by						
Number	2	3	5	6	10	15	
45							
44							
32							
64							
24							
30							
625							
126							
175							
130							
120							
345							
456							
2610							

its side lengths another.





Factors and Prime Numbers

Factorize the following numbers to its factors:

12, 15, 16, 24, 48, 60, 64, 72, 120, 150, 200

12= 12=

the factors of 12 are

16

48

15

24

60

Circle the prime numbers:

7 , 15 , 8 , 31 , 51 , 13 , 41 , 23 , 65 , 72 , 87 , 111

Write the prime numbers between 20 and 30

Write the prime numbers between 30 and 40.

Write the prime numbers between 40 and 50.

Complete. The prime number has only ...

- The smallest prime number is
- The smallest prime odd number is

 The smallest prime even number is

The number 6 is not a prime number because

■ Put (✓) for the correct statement and (×) for	or the incorrect one :
---	------------------------

(a) The number 7 has two factors only. (b) 6 is a factor of the number 63

[c] The factors of the number 18 are 2 , 3 , 6 , 9 and 18 only.

[d] The number 11 has two factors only.

[e] 0 is a factor of all numbers. ()

Complete:

[a] The factors of the number 14 are

[b] The number 20 has . factors only

[c] The number . has 1 factor only.

[d] The factors of the number 21 are

[e] The numbers a factor of all numbers.

Choose the correct answer :

[a] The value of the digit 5 in the number 456 789 is

(50 000 or 5 000 or 500)

[b] The number is divisible by 3 (128 or 13 or 24)

[c] 100°, 50° and 30° are the measures of - angled triangle.

(acute or right or obtuse)

[d] The number of sides of the pentagon = (4 or 5 or 6)

[e] If: 79 x 18 = 1 422, then: 1 422 + 18 = (79 or 18 or 36)

O Draw the square XYZL with side length 5 cm and draw the two diagonals \overline{XZ} and \overline{LY}

A fruitseller bought a box of apples weighing 24 kg.

If the price of the box was 120 pounds, find the price of one kg.



Common Factors for Two or more Numbers and Highest Common Factor (H.C.F.)

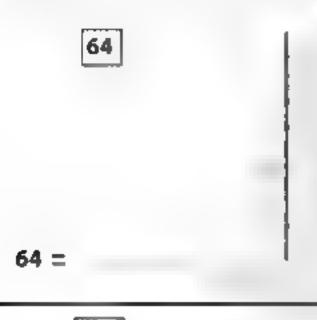
Factorize the following number to its prime factors

12, 15, 16, 24, 48, 60



Factorize the following number to its prime factors

64,72,120,150



72 =

72

120 = 150

What is the number which has these prime factors 2,2,3 and 5

What is the number which has these prime factors 2,3,3 and 5

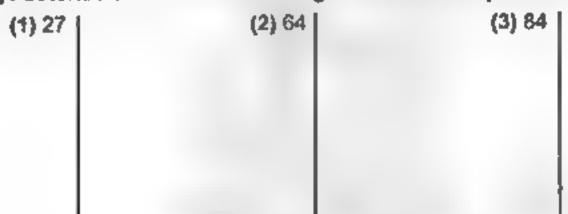
What is the number which has these prime factors 2,2,5 and 5

What is the number which has these prime factors 2,2,2 and 5

(a) Underline the prime numbers of the following:

5 , 2 , 21 , 23 , 9 , 1 , 43 and 33

[b] Factorize each of the following numbers to its prime factors :



Complete:

- [a] The smallest prime number is
- [b] The prime number has only factors.
- [c] The prime factors of the number 18 are
- [d] The smallest number whose prime factors are 2 , 3 , 5 and 7 is
- (e) is the only even prime number.

Choose the correct answer between brackets:

- [a] The prime number between 6 and 10 is (7 or 8 or 9)
- [b] The number of factors of 4 is . . . (4 or 1 or 3)
- [c] 7 050 + 75 = (92 or 93 or 94)
- [d] 2 064 is not divisible by {2 or 3 or 5}
- [e] The numbers 2 , 3 , 5 and 7 are called numbers.

 (odd or prime or even)



Find the result of each of the following:

[b]
$$876 \times 35 =$$

- [3] [a] Nada bought 25 metres of cloth, the price of one mere P.T. 475

 How much money did Nada pay ?
 - [b] Draw the triangle LMN in which $m (\angle M) = 30^{\circ}$, $m (\angle N) = 50^{\circ}$ and MN = 6 cm. Find :
 - (1) m (Z L)
 - (2) the type of the triangle LMN according to the measures of its angles.

Find the H.C.F for each of the following

25 and 15

H.C.F. = -----

20 and 30

36 and 48

H.C.F. = " -=

24 and 16



Find the H.C.F for each of the following

16 and 12

H.C.F. =

32,48 and 64



H.C.F. = · · · · · · · · ·

24 , 40 and 56



H.C.F. = --- -

15 , 18 and 21



- **■** Complete:
 - [a] The H.C.F. of 18 and 27 ts
 - [b] The H.C.F. of 12, 42 and 60 is
 - [c] The H.C.F. of 35 and 20 is
 - [d] is a common factor for all numbers
 - [e] The prime factors of 45 are
- Choose the correct answer between brackets:
 - [a] The H.C F. of 7 and 56 is

(1 or 7 or 56)

[b] The H.C.F. of 60, 30 and 45 is

(5 or 10 or 15)

[c] 231 is divisible by .

(2 or 3 or 5)

- [d] The two diagonals of the parallelogram are
 - (bisecting each other or equal in length or orthogonal)
- [e] The triangle whose side lengths are 6 cm 3 cm and 6 cm is called (scalene or equilateral or isosceles)
- (a) Write the prime numbers that lying between 2 and 30
 - [b] List the prime factors of 60
 - [c] Factorize 84 to its prime factors



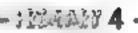
Find the result of each of the following:

$$[c] 675 \times 9 =$$

[a] Find the H.C.F. of the numbers 18, 30 and 42

[b] If the price of 26 metres of cloth is L.E. 286 Find the price of 18 metres.





Common Multiples for Two or more Numbers and Lowest Common Multiples (L.C.M.)

Find H.C.F. and L.C.M for: 25 and 10

= 11	e ai		
. =	ur		
H.C.F. =			
L,C.M. =		=	

24 and 16

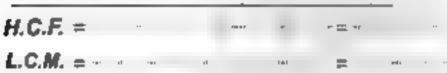
14 and 21

	e 3" ***
22 1	ang je pe
H.C.F. =	
L.C.M. =	≠ ***



18,27 and 9



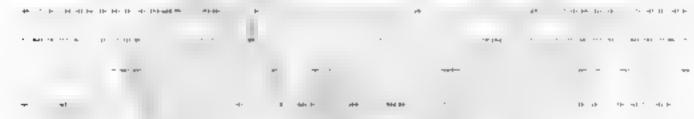


15 , 30 and 20





Find the L C M for the numbers $(5 \times 7 \times 3)$ and $(2 \times 5 \times 7)$



Find the L C M for the numbers (2 \times 3 \times 5 \times 7) and (3 \times 3 \times 7)

Find the H.C.F. and the L.C.M. of each of the following :

[a] 12 and 14

(c) 28 and 42

[b] 18 and 20

[d] 8 , 12 and 24

L.C.M. = --- = = =

L.C.M. = - - = -

H.C.F. = --- = -

Ø	Put (/) for the	correct statement an	d (x) for the	incorrect and	F.Z
U	Lat (A) tot me	correct statement an	a (x) for the	INCOMPCE ON	ľ

- [a] The L.C M. of 8 and 15 is 24
- [b] The L C.M. of 4 8 and 14 is 56
- [c] The smallest odd prime number is 1
 [d] 5 280 is divisible by 2 and 5 but not divisible by 3
- [e] All sides of the rhombus are equal in length

Complete:

- (a) The place value of the digit 2 in the number 2 813 594 is
- [b] 543 572 412 379 = y
- [c] 7 105 + ---- = 35
- (d) The three sides are equal in length in the triangle.
- [e] The two diagonals are equal in length in and

4 [a] Put (<) , (=) or (>) :

- (1) 245 + 7 3 × 13
- (2) 5 000 + 3 000 800 tens
- (3) The number of sides in any polygon _____ the number of digonals in the same polygon
- [b] A theatre has 45 rows. Each row consists of 12 seats. How many seats are there in the theatre ?

B Draw the rectangle ABCD with dimensions 3 cm. and 4 cm. , then draw the two diagonals of the rectangle \overline{AC} and \overline{BD} , then complete :

- (b) The perimeter of the rectangle ABCD = cm.



Measurement

Lesson 1: Lengths

Lesson 2: Areas





Lengths

Complete as in the example:

- 5 m = cm.
- 1 4 metres = - centimetres.
- e 8m = dm
- d 3 cm = mm.
- 1 9 m. = dm = cm.
- 98 m. ≈ cm = mm
- h 2 dm = mm
- km = 4 000 m
- ______ cm = 3 m
- k dm. = cm = 700 mm 1
 - m = 60 dm = cm
- 8 000 cm = m
- km. = 2 000 m = dm
- 4 000 m. = km. =
- P 4km. = m = cm
- 9 50 000 dm, = > 1 m = - km

Arrange the following units of length in an ascending order:

- Kilometre metre mi-imetre and decimetre
- Centimetre mill metre kilometre and metre

Choose the suitable unit of measurement for measuring the following between brackets as in the example:

The length of your trousers

(mm. or km. or cm.)

The height of Ca ro tower

- (m. or mm. or dm.)
- The distance between Cairo and Alexandria
- (mm. or dm. or km)

The height of the class door.

(mm, or km, or m.)

The length of an ant

(km. or mm. or m)

The height of a pupil.

(mm. or cm. or km)

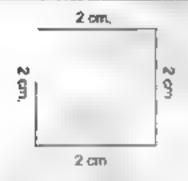


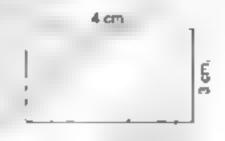
Choose the closest answer to the right between brackets as in the example:

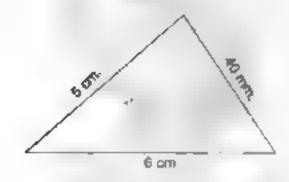
- The length of my school bus ≠
- The length of your notebook =
- The height of my brother =
- The height of the greatest pyramid =
- The length of a taxt =

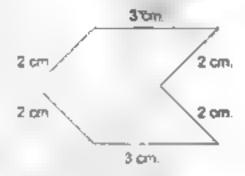
- (1 km. or 5 m. or 125 mm.)
- (1 km or 10 dm. or 22 cm)
- (3 m. or 160 cm. or 160 mm.)
- (500 cm, or 150 m, or ½ dm)
 - (2 km. or 20 m. or 200 cm.)

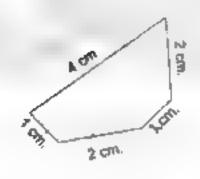
Calculate the perimeter of the following figures :

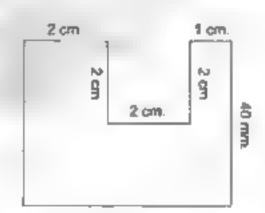












Complete:

- The perimeter of a square = · · · · · · ×
- The perimeter of a rectangle = (+) ×
- The side length of a square = - -
- d Half of the permeter of a rectangle =
- The perimeter of a square of side length 7 cm is · cm
- The perimeter of a rectangle with length 6 cm. and width 4 cm, is well cm.
- The perimeter of a square of side length 2 dm is cm.
- The perimeter of a rectangle with dimensions 1 m and 50 cm is ********* dm
- The side length of a square whose perimeter is 36 cm is cm

Calculate the perimeter of each of the following :

A square whose side length is 7 cm

- A rectangle whose length is 9 cm, and width is 6 cm.
- A square of side length 3 dm.
- A rectangle whose dimensions are 2 m, and 150 cm.

Find the side length of the square whose perimeter is 160 cm.

Calculate in centimetre, the side length of a square whose perimeter is 4 dm.

The sum of the perimeters of two squares is 100 dm. If the side length of one of them is 8 dm., find the side length of the other square in :

It is wanted to make a frame to a rectangular-shaped picture whose dimensions are 40 cm. and 60 cm. If the cost of one metre of the frame is 3 pounds, what is the cost of the frame?

Find the difference between the perimeters of a square of side length 12 cm. and a rectangle with length 7 cm. and width 3 cm.

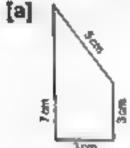
€ Complete:

- [a] 9 km. = m.
- [b]3m =

- [c] 70 dm, = m
- [d] The perimeter of the square =
- [e] The perimeter of the rectangle with dimensions 5 cm, and 7 cm, =

cm.

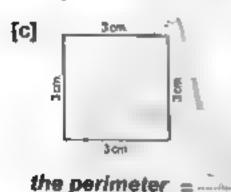
Calculate the perimeter of each of the following figures:



[b] 6cm.

the perimeter =

the perimeter =





the perimeter = ---

[a] Which is greater?

The perimeter of a rectangle of length 7 cm and width 4 cm. or the perimeter of a square of side length 5 cm

[b] Arrange the following numbers in an ascending order :

7 547 213 , 8 millions , 6 729 514 and 7 901 235

The order is:

and



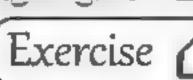
② Put (√) for the correct statement and (×) for the incorrect of	ne.
--	-----

- [a] The side length of a square = $\frac{\text{its permeter}}{4}$ ()
- [b] 3 m. and 5 cm. = 350 cm.
- [c] The number 17 is a prime number. ()
 [d] The number 990 is divisible by 5
- [e] The sum of the measures of the intenor angles of a triangle
 - is 108° ()

[a] Find the result of each of the following:

- (2) 875 216 + 653 294 =
- (3) 27 945 + 9 = ----
- (4) 7 625 136 4 588 677 =

[b] Find the L.C.M. of 28 and 35



Maril .

The Area

Complete

3 m² = dm²

6 8 dm² = cm²

 $0.00 \, dm^2 = m^2$

 $9 \text{ km}^2 = \text{dm}^2$

1 80 000 cm² = m²

k 6 000 000 m2 = km2

5 m? = cm?

 $d 7 m^2 = dm^2 = cm^2$

 $\frac{1}{2}$ km² = m²

2 700 dm² = m²

90 000 cm? = m3

Choose the suitable unit of measurement for measuring the following between brackets

The area of the Eastern Desert.

(km² or cm² or dm²)

The area of your photo

(m² or km² or cm²)

The area of the carpet in your room

(mm² or m² or km²)

The area of the playground of your school

(km2 or cm2 or m2)

The area of a page in your magazine

(cm² or km² or m²)

Choose the closest answer to the right between brackets

The area of the flat where I live is

(75 km² or 75 cm² or 75 m² or 75 dm²)

The area of your cupboard is

(80 m² or 66 km² or 3 m²)

The area of the board in your class is

{ 6 km² or 6 cm² or 6 m² }

A pupil in primary 4 used his geometric instruments to draw a rectangle whose area in his notebook (12 m² or 12 dm² or 12 cm²)

The area of the tile used in tilling our house is

(25 dm² or 25 cm² or 25 m²)

Complete:

- The area of a square = side length x
- The area of a rectangle =
- The length of a rectangle = The area
- The area of a square whose side length is 5 cm is
- The width of a rectangle whose area is 18 dm? and its length is 6 dm. is
- If the perimeter of a square = 24 cm , then its area =
- The area of a rectangle whose dimensions are 13 cm. and 7 cm. is:
- If the area of a square is 9 cm2, then its side length =
- The area of a square is 1 dm² then its side length = cm, and its perimeter = cm.
- The area of a rectangle is 48 cm? the width of this rectangle is 6 cm. • then its length = cm and its perimeter = cm.

Put [< .> or =] as in the example:

- **81** dm? 6 400 cm² **b** 3 m² 500 dm²
- The area of a square of side length 30 cm 🛴 9 dm²
- The area of a square of side length 8 cm ____ the area of a rectangle whose dimensions are 9 cm and 8 cm
- 300 m. 3 km, {

Calculate the area of :

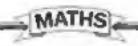
- A square of side length 5 dm.
- A rectangle of dimensions 8 cm. and 5 dm.





A sq	uare whose perimeter is 28 cm.
A rec	tangle whose length is 4 times its width , and its width equals 8 cr
31111111	
	ne sum of the perimeters of two squares is 48 cm. and the side of one of them is 7 cm.
ind:	the side length of the second square.
	b the sum of their areas.
	······································
anni	***************************************

100700	
and 6	re have a rectangular-shape hall whose dimensions are 8 metrosetres, how many tiles are needed to tile this hall, given that ength of the required squared-shape tiles is 20 cm. ?
40.00	
/	





-	h of a rectangle is three times its width. If its perimeter d its area in cm. ²

The drawn figure is a rectangle whose dimensions are 9 cm. and 6 cm. A square of side length 4 cm. is cut from it.

Calculate: a The area of the remaining part by two different methods.

b The perimeter of the remaining part.





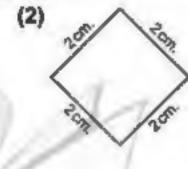


Complete:

- [a] $9 \text{ km}^2 = \dots \text{ m}^2$ [b) $3 \text{ m}^2 = \dots \text{ dm}^2 = \dots \text{ cm}^2$
- [c] The area of the square =x
- [d] The area of the rectangle = -----x
- [e] In the rectangle, each two opposite sides are in length.

[a] Calculate the area of each of the following figures:





[b] Find the perimeter and area of each of the following :

(1) A square with side length 5 cm.

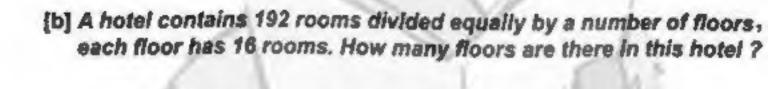
(2) A rectangle with length 8 cm. width 4 cm.

Complete:

- [a] 4 million , 87 thousand and 135 =
- [b] The place value of the digit 5 in the number 5 326 179 is and in the number 4 958 732 is
- [c] The factors of the number 35 are
- [d] 123 × 15 = -----
- [e] The prime number between 5 and 10 is



[a] Draw the square XYZL with side length 4 cm., then calculate its perimeter and its area.



[a] Find the result :

[b] Find the H.C.F. and the L.C.M. of 12 and 18